

# Executive Summary Report

## SMOG CHECK Statewide

May 2011

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	808,928	99,501	12.30%
Total	931,911	126,384	13.56%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	699,410	86.46%	109,518	13.54%
Total	791,970	84.98%	139,941	15.02%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	432,613	85.93%	70,831	14.07%
Total	496,656	84.74%	89,472	15.26%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,590	1.43%
All Emissions	49,290	6.09%
All Visual	12,240	1.51%
All Functional	63,225	7.82%
OBDII	41,988	5.19%
Overall	99,501	12.30%

### 5. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	304,786	275,154
Directed Vehicles	198,658	157,459
Total	503,444	432,613

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	50,752	43,970
Directed Vehicles	16,088	11,721
Total	66,840	55,691

### 7. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,560	276	539	30	0	4,405
Test Only	2,497	45	26	1	0	2,569
Basic Area Dealer	0	1	104	0	0	105
Gold Shield	486	29	45	77	0	637
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	30	1	4	0	0	35
Referee	36	0	6	1	0	43
Government Fleet	247	9	37	2	0	295
Unknown Type	1	0	0	0	0	1
Total	6,860	361	761	111	0	8,093

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	637,691	80,935	12.69%	9,191	1.44%
Partially Enhanced	43,008	6,069	14.11%	647	1.50%
Basic	74,732	7,407	9.91%	996	1.33%
Change of Ownership	5,880	811	13.79%	186	3.16%
No Program	6	0	0.00%	0	0.00%
Unknown Program	47,611	4,279	8.99%	570	1.20%
Total Program Area	808,928	99,501	12.30%	11,590	1.43%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	503,444	69,406	13.79%	8,282	1.65%
Regular	229,362	18,837	8.21%	1,837	0.80%
Basic Area Dealer	4,931	194	3.93%	12	0.24%
Gold Shield in Enhanced Area	51,172	8,441	16.50%	1,043	2.04%
Gold Shield in Basic Area	10,151	1,299	12.80%	187	1.84%
Gold Shield in COO Area	5,517	772	13.99%	141	2.56%
Business Fleet	6	0	0.00%	0	0.00%
Permanent Fleet Registered	34	4	11.76%	0	0.00%
Referee	460	220	47.83%	49	10.65%
Government Fleet	3,851	328	8.52%	39	1.01%
Total	808,928	99,501	12.30%	11,590	1.43%

**10. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1960	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	966	261	27.02%	18.53%	8.49%	15.32%	8.28%	0.00%
MY-1977	1,283	336	26.19%	17.23%	6.63%	15.20%	7.87%	0.00%
MY-1978	1,499	400	26.68%	18.01%	7.54%	16.41%	9.07%	0.00%
MY-1979	1,491	421	28.24%	20.12%	9.86%	15.36%	8.99%	0.00%
MY-1980	948	264	27.85%	19.83%	10.23%	16.56%	8.33%	0.00%
MY-1981	1,076	327	30.39%	25.00%	10.22%	15.80%	9.11%	0.00%
MY-1982	1,269	389	30.65%	22.62%	7.80%	16.08%	8.20%	0.00%
MY-1983	1,766	539	30.52%	24.63%	8.21%	14.89%	6.85%	0.00%
MY-1984	3,150	984	31.24%	25.40%	9.68%	15.02%	7.30%	0.00%
MY-1985	4,066	1,233	30.32%	24.40%	8.68%	13.94%	6.98%	0.00%
MY-1986	5,753	1,662	28.89%	22.58%	8.00%	14.34%	5.65%	0.00%
MY-1987	6,545	1,995	30.48%	24.19%	7.72%	14.44%	5.16%	0.00%
MY-1988	8,189	2,281	27.85%	21.91%	6.81%	13.13%	4.93%	0.00%
MY-1989	11,149	3,035	27.22%	21.10%	6.05%	12.84%	4.13%	0.00%
MY-1990	13,943	3,683	26.41%	21.01%	5.77%	11.87%	3.99%	0.00%
MY-1991	16,331	4,218	25.83%	20.01%	5.17%	11.71%	3.42%	0.00%
MY-1992	17,301	4,299	24.85%	19.51%	5.13%	10.77%	3.25%	0.00%
MY-1993	20,307	5,470	26.94%	22.19%	4.72%	10.57%	3.32%	0.00%
MY-1994	24,146	5,811	24.07%	18.86%	3.52%	9.58%	3.13%	0.00%
MY-1995	34,169	7,270	21.28%	16.24%	2.74%	8.16%	2.72%	0.00%
MY-1996	26,179	5,127	19.58%	9.64%	1.48%	12.71%	2.05%	11.64%
MY-1997	44,625	6,882	15.42%	6.52%	1.12%	10.53%	1.61%	9.61%
MY-1998	38,092	5,515	14.48%	5.72%	1.04%	10.14%	1.53%	9.58%
MY-1999	63,789	6,342	9.94%	3.02%	0.55%	7.56%	1.14%	7.18%
MY-2000	42,055	4,785	11.38%	2.90%	0.58%	9.11%	1.23%	8.83%
MY-2001	88,522	9,232	10.43%	1.33%	0.28%	9.36%	0.82%	9.23%
MY-2002	35,248	3,559	10.10%	1.63%	0.40%	8.85%	0.94%	8.71%
MY-2003	97,381	6,059	6.22%	0.74%	0.17%	5.61%	0.51%	5.52%
MY-2004	29,244	1,779	6.08%	0.93%	0.16%	5.28%	0.57%	5.17%
MY-2005	112,547	4,134	3.67%	0.35%	0.07%	3.25%	0.33%	3.19%
MY-2006	17,741	562	3.17%	0.74%	0.07%	2.60%	0.39%	2.56%
MY-2007	17,850	378	2.12%	0.32%	0.03%	1.82%	0.18%	1.77%
MY-2008	8,154	117	1.43%	0.42%	0.02%	1.17%	0.12%	1.13%
MY-2009	4,278	60	1.40%	0.21%	0.07%	1.24%	0.09%	1.17%
MY-2010	5,850	65	1.11%	0.21%	0.02%	0.87%	0.09%	0.82%
MY-2011	2,007	27	1.35%	0.15%	0.00%	1.20%	0.15%	1.20%
MY-2012	18	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	808,928	99,501	12.30%	6.09%	1.43%	7.82%	1.51%	5.19%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	417
Certificate of Non Compliance	0
Parts Cost	91
Hardship Extensions	0
Exempt Vehicle	32
Exempted by Directive	8
Parts Exemption	8
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>556</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	996
Stations Locked-Out at Least Once	363
Stations Conducted at Least One Test	7,097

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,024	5,927
EA	Gas Endorsement	9	0
EB	Both Endorsement	45	0
EB	Gas Endorsement	459	0
GU	Both Endorsement	20	0

**14. Inspection Costs**

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	430,294	47.63	61,814	48.69	492,108	47.76
Test and Repair	144,064	47.36	77,078	46.91	221,142	47.20
Test and Repair Dealer	43	61.28	4,510	51.63	4,553	51.73
Referee	203	30.00	76	30.00	279	30.00
Gold Shield in Enhanced Area	42,858	47.04	6,997	48.51	49,855	47.25
Gold Shield in Basic Area	498	61.40	9,348	35.37	9,846	36.69
Gold Shield in COO Area	1,055	55.24	4,247	54.36	5,302	54.54

**15. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$1-50	3,571	23.42	<b>15,759</b>	<b>299.71</b>
	\$51-150	3,148	100.61		
	\$151-250	2,426	200.54		
	\$251-450	3,380	341.77		
	Over \$450	3,234	829.05		
CAP Repairs	\$1-50	42	20.86	<b>682</b>	<b>549.32</b>
	\$51-150	54	103.06		
	\$151-250	40	196.60		
	\$251-450	98	358.86		
	Over \$450	448	725.81		
Total Repairs	\$1-50	3,540	23.45	<b>16,176</b>	<b>315.15</b>
	\$51-150	3,118	100.74		
	\$151-250	2,423	200.61		
	\$251-450	3,438	342.35		
	Over \$450	3,657	830.63		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	645	549.32

**17. Drill-Through**

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	11	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	45	6	1	0	3	2	5	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test Only	67	5	0	0	4	3	4	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	7	1	0	0	0	1	0	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	9	3	0	0	1	2	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	334	84	7	0	24	51	37	5
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	799	172	19	8	79	90	113	18
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	30,499	6,561	806	392	2,620	3,355	4,083	954
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	60	0	0	39	11	49	0
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	6	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	117	137	34	44	34	76	83	79
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	100,319	8,407	643	498	4,820	3,029	6,144	937
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	344,239	59,948	7,089	3,319	22,736	32,944	35,985	6,977
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	62	16	4	0	9	10	12	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	40	9	1	1	5	3	7	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,924	748	89	51	298	381	480	93
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	5	0	0	3	2	3	0
Acceleration Simulation Mode (ASM)	Partial	Referee	8	7	1	4	1	4	5	5
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,977	2,840	281	126	1,115	1,467	1,754	282
Acceleration Simulation Mode (ASM)	Partial	Test Only	11,109	2,006	224	133	741	1,068	1,182	258
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	23	4	0	0	3	1	3	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,485	300	37	30	128	142	195	54

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	229	37	2	32	183	52	2
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	10	17	5	9	1	10	12	14
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	12,934	1,037	110	72	535	462	706	139
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	13,710	1,796	262	132	786	929	1,096	256
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	7,158	1,043	153	72	399	366	691	191
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	141	14	1	1	7	4	10	2
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,173	227	36	22	104	76	162	40
Two Speed Idle (TSI)	Basic	Referee	22	32	8	15	3	12	21	20
Two Speed Idle (TSI)	Basic	Test and Repair	42,493	4,496	585	251	2,035	1,366	3,325	587
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,196	149	12	12	72	34	109	22
Two Speed Idle (TSI)	Basic	Test Only	9,155	1,288	200	93	566	446	900	194
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	58	19	7	2	4	8	13	4
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,985	384	90	27	130	179	259	60
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	114	14	1	2	7	3	14	2
Two Speed Idle (TSI)	Change of Ownership	Referee	2	1	1	0	0	1	1	1
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,721	204	43	20	84	83	146	39
Two Speed Idle (TSI)	Change of Ownership	Test Only	949	176	44	20	53	79	111	37
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	480	50	6	10	28	7	38	13
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	495	60	4	3	38	12	51	6
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,242	460	65	32	281	111	362	65
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	17	1	0	12	4	13	1
Two Speed Idle (TSI)	Enhanced	Test and Repair	18,521	995	97	57	673	191	805	95
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	471	12	0	1	9	1	11	2
Two Speed Idle (TSI)	Enhanced	Test Only	42,476	3,501	420	196	2,275	848	2,705	342
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	53	7	1	2	4	1	5	2
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	53	5	1	1	1	3	4	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	322	47	4	5	28	9	42	10

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Partial	Test and Repair	2,133	183	25	10	95	46	142	21
Two Speed Idle (TSI)	Partial	Test Only	1,256	118	16	15	56	32	85	23
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	377	52	9	9	19	18	35	15
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	941	114	25	16	53	45	84	25
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	374	23	5	0	11	7	16	3
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	8	1	0	4	3	5	0
Two Speed Idle (TSI)	Unknown Program	Referee	8	2	0	0	1	1	2	0
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,019	400	52	36	229	119	310	67
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	512	11	0	1	4	3	8	2
Two Speed Idle (TSI)	Unknown Program	Test Only	3,501	233	27	10	149	53	187	21
UnKnown TestType	Basic	Gold Shield in Basic Area	235	23	0	1	17	23	17	7
UnKnown TestType	Basic	Gold Shield in COO Area	12	1	0	1	0	1	0	1
UnKnown TestType	Basic	Gold Shield in Enhanced Area	68	4	0	1	3	4	3	1
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	2	0	0
UnKnown TestType	Basic	Referee	1	1	0	1	1	1	1	1
UnKnown TestType	Basic	Test and Repair	1,759	77	0	10	57	81	57	22
UnKnown TestType	Basic	Test and Repair Dealer	295	15	0	1	12	16	12	3
UnKnown TestType	Basic	Test Only	310	18	0	7	11	18	11	9
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	58	2	0	0	2	2	2	0
UnKnown TestType	Change of Ownership	Test and Repair	47	2	0	0	1	2	1	1
UnKnown TestType	Change of Ownership	Test Only	17	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Gold Shield in Basic Area	14	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Gold Shield in COO Area	53	3	0	1	2	7	2	1
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	810	45	0	10	31	54	31	16
UnKnown TestType	Enhanced	Government Fleet	0	2	0	0	2	44	2	0
UnKnown TestType	Enhanced	Referee	10	1	0	1	1	1	1	1
UnKnown TestType	Enhanced	Test and Repair	2,897	127	0	17	98	157	98	35
UnKnown TestType	Enhanced	Test and Repair Dealer	40	1	0	1	0	1	0	1
UnKnown TestType	Enhanced	Test Only	5,016	274	0	54	200	289	200	90

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
UnKnown TestType	Partial	Gold Shield in Basic Area	7	2	0	0	1	2	1	1
UnKnown TestType	Partial	Gold Shield in COO Area	3	1	0	0	1	1	1	0
UnKnown TestType	Partial	Gold Shield in Enhanced Area	127	8	0	1	5	8	5	3
UnKnown TestType	Partial	Referee	2	1	0	0	1	1	1	0
UnKnown TestType	Partial	Test and Repair	885	43	0	13	25	45	25	20
UnKnown TestType	Partial	Test Only	382	21	0	5	11	21	11	10
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	19	2	0	2	0	2	0	2
UnKnown TestType	Unknown Program	Gold Shield in COO Area	63	3	0	1	1	6	1	2
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	69	1	0	0	1	3	1	0
UnKnown TestType	Unknown Program	Government Fleet	0	1	0	0	1	14	1	0
UnKnown TestType	Unknown Program	Permanent Fleet Registered	0	1	0	0	1	1	1	0
UnKnown TestType	Unknown Program	Referee	21	6	0	5	1	6	1	5
UnKnown TestType	Unknown Program	Test and Repair	432	19	0	5	11	43	11	9
UnKnown TestType	Unknown Program	Test Only	414	18	0	3	14	32	14	6